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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet	1	of	1
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Application Number	09/888,164
Filing Date	June 22, 2001
First Named Inventor	Ts'o
Group Art Unit	1635
Examiner Name	M.M. Schmidt
Attorney Docket Number	212241

[illegible][illegible]

Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Translation	
			Yes	No**
KL	H B	ALT et al., "Specific Inhibition of Hepatitis C Viral Gene Expression by Antisense Phosphorothioate Oligodeoxynucleotides," <i>Hepatology</i> 22: 707-717 (1995).		
KL	H C	KORBA et al., "Antisense Oligonucleotides are Effective Inhibitors of Hepatitis B Virus Replication In Vitro," <i>Antiviral Research</i> 28:225-242 (1995).		
KL	H D	CHEN et al., "Specific Inhibition of Delta Antigen by In Vitro System by Antisense oligodeoxynucleotide: Implication for Translation Mechanism and Treatment," <i>Journal of Virological Methods</i> 65:183-189 (1997).		

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- * A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).
+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).



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U.S. PATENT DOCUMENTS

Examiner Initials	Doc. No.	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Filing Date If Appropriate
		Application or Patent Number	Kind Code			
KC	AA	4,415,732		Caruthers et al.	11/15/1983	
	AB	4,671,958		Rodwell et al.	6/9/1987	
	AC	4,680,338		Sundoro	7/14/1987	
	AD	4,725,677		Köster et al.	2/16/1988	
	AE	4,770,183		Groman et al.	9/13/1988	
	AF	4,827,945		Groman et al.	5/9/1989	
	AG	4,952,394		Senter	8/28/1990	
	AH	4,975,278		Senter et al.	12/4/1990	
	AI	5,006,652		Cullinan et al.	4/9/1991	
	AJ	5,010,176		Barton	4/23/1991	
	AK	5,017,693		Hylarides et al.	5/21/1991	
	AL	5,028,697		Johnson et al.	7/2/1991	
	AM	5,087,616		Myers et al.	02/11/1992	
	AN	5,094,849		Cullinan et al.	3/10/1992	
	AO	5,116,944		Sivam et al.	5/26/1992	
	AP	5,122,368		Greenfield et al.	6/16/1992	
	AQ	5,141,648		Hylarides et al.	8/25/1992	
	AR	5,141,739		Jung et al.	8/25/1992	
	AS	5,144,012		Johnson et al.	9/1/1992	
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	AU	5,169,933		Anderson et al.	12/8/1992	
	AV	5,248,492		Groman et al.	9/28/1993	
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	AX	5,284,646		Menz et al.	2/8/1994	
	AY	5,308,604		Sinn et al.	5/3/1994	
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	BL	5,563,250		Hylarides et al.	10/8/1996	
	BM	5,574,142		Meyer Jr. et al.	11/12/1996	
	BN	5,589,334		Coulie et al.	12/31/1996	
	BO	5,612,474		Patel	3/18/1997	
	BP	5,614,505		Gmeiner et al.	3/25/1997	
	BQ	5,622,929		Willner et al.	4/22/1997	
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KC	BS	5,639,633		Callstrom et al.	6/17/1997	
	BT	5,648,298		Powell	7/8/1997	
	BU	5,663,321		Gmeiner et al.	9/2/1997	
	BV	5,665,358		Barton et al.	9/9/1997	
	BW	5,679,323		Menz et al.	10/21/1997	
	BX	5,681,811		Ekwuribe	10/28/1997	
	BY	5,700,921		Westling et al.	12/23/1997	
	BZ	5,700,922		Cook	12/23/1997	
	CA	5,741,900		Gmeiner et al.	4/21/1998	
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	CF	5,880,097		Lyttle et al.	3/9/1999	
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	CH	5,929,049		Singh et al.	6/27/1999	
	CI	5,981,507		Josephson et al.	11/9/1999	
	CJ	5,994,517		Ts'o et al.	11/30/1999	
	CK	6,005,094		Simon et al.	12/21/1999	
	CL	6,005,098		Hattori et al.	12/21/1999	
	CM	6,030,997		Ellat et al.	2/29/2000	
	CN	6,037,329		Baird et al.	3/14/2000	
	CO	6,063,604		Wick et al.	5/16/2000	
	CP	6,077,837		Kozak	6/20/2000	
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		Office	Application or Patent Number	Kind Code			Yes	No**
	CS	EP	0 884 327	✓ B1	Florence et al.	3/14/2001		
	CT	PCT	97/20563	✓	Ts'o et al.	6/12/97		
	CU	PCT	00/69473	✓	Vera	11/23/2000		
	CV	PCT	01/32623	✓ A1	Ruggner et al.	5/10/2001		
	CW							
	CX							

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			Yes	No
✓	CY	AGRAWAL et al., "Oligodeoxynucleoside Phosphoramidates and Phosphorothioates as Inhibitors of Human Immunodeficiency Virus," Proc. Natl. Acad. Sci. USA, 85(19):7079-7083 (1988) Abstract Only.		

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KLF	CZ	AGRIS et al., "Inhibition of Vesicular Stomatitis Virus Protein Synthesis and Infection by Sequence-Specific Oligodeoxyribonucleoside Methylphosphonates," <i>Biochemistry</i> , 25: 6268-6275 (1986).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
KLX	DA	AKHTAR et al., "Stability of Antisense DNA Oligodeoxynucleotide Analogs in Cellular Extracts and Sera," <i>Life Science</i> , 49: 1793-1801, (1991).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DB	ALT et al., "Core Specific Antisense Phosphorothioate Oligodeoxynucleotides as Potent and Specific Inhibitors of Hepatitis C Viral Translation," <i>Arch. Virol</i> , 142: 589-599 (1997).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DC	ANDERSSON, "Reduction and Reoxidation of the Disulfide Bonds of Bovine Serum Albumin," <i>Archives of Biochemistry and Biophysics</i> , 133: 277-285 (1969).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DD	ASAYAMA et al., "Synthesis Of Novel Polyampholyte Comb-Type Copolymers Consisting Of A Poly (L-Lysine) Backbone And Hyaluronic Acid Side Chains For A DNA Carrier," <i>Bioconjugate Chem.</i> , 9: 476-481 (1998).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DE	BIDER et al., "Ligand-induced Endocytosis of the Asialoglycoprotein Receptor: Evidence for Heterogeneity in Subunit Oligomerization," <i>FEBS Lett.</i> 434: 37-41 (1998).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DF	BIESSEN et al., "Cholesterol Derivative of a New Triantennary Cluster Galactoside Directs Low- and High-density Lipoproteins to the Parenchymal Liver Cell," <i>Biochem. J.</i> , 302: 283-289 (1994).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DG	BIESSEN et al., "Synthesis of Cluster Galactosides with High Affinity for the Hepatic Asialoglycoprotein Receptor," <i>J. Med. Chem.</i> , 38: 1538-1546 (1995).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DH	BIESSEN et al., "Cholesterol Derivative of a New Triantennary Cluster Galactoside Lowers Serum Cholesterol Levels and Enhances Secretion of Bile Acids in the Rat," <i>Circulation</i> , 91: 1847-1854 (1995).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DI	BIESSEN et al., "Targeted Delivery of Oligonucleotides to Parenchymal Liver Cells in Vivo," <i>Biochem. J.</i> , 340: 783-792 (1999).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DJ	BIESSEN et al., "Targeted Delivery of Antisense Oligonucleotides to Parenchymal Liver Cells in Vivo," <i>Methods in Enzymology</i> , 314: 324-342 (1999).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DK	BIESSEN et al., "Novel Hepatotrophic Prodrugs of the Antiviral Nucleoside 9-(2-Phosphonylmethoxyethyl) Adenine with Improved Pharmacokinetics and Antiviral Activity," <i>FASEB J.</i> , 14: 1784-1792 (Sept. 2000).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DL	BONFILS et al., "Drug targeting: Synthesis and Endocytosis of Oligonucleotide-Neoglycoprotein Conjugates," <i>Nucleic Acids Res.</i> , 20(17): 4621-4629 (1992).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DM	BOUSSIF et al., "A Versatile Vector for Gene and Oligonucleotide Transfer into Cells in Culture and in Vivo: Polyethylenimine," <i>Proc. Natl. Acad. Sci. USA</i> , 92: 7297-7301 (1995).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DN	BRETON et al., "Production of Macrophage-derived Cytotoxic Factor by N-[3-[(Carbamoylmethyl)thio]propionylated] Neoglycoproteins," <i>Bioconjugate Chemistry</i> , 2: 16-18 (1991).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DO	BRUIX, "Treatment of Hepatocellular Carcinoma," <i>Hepatology</i> , 25: 259-262 (1997).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DP	BUNNELL et al., "Targeted Delivery of Antisense Oligonucleotides by Molecular Conjugates," <i>Somatic Cell and Molecular Genetics</i> , 18(6): 559-569 (1992).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DQ	CARUTHERS, "Chemical Synthesis of DNA and DNA Analogues," <i>Acc. Chem. Res.</i> 24: 278-284 (1991).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DR	CATTANEO-PANGRAZZI et al., "Cell-cycle Arrest and p53-independent Induction of Apoptosis in Vitro by the New Anticancer Drugs 5-FdUrd-P-FdCydOct and dCydPam-P-FdUrd in DU-145 Human Prostate Cancer Cells," <i>J. Cancer Res. Clin. Oncol.</i> , 126: 247-256 (May 2000).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DS	CHENG et al., "Characterization of an Antineoplastic Glucuronide Prodrug," <i>Biochem. Pharmacol.</i> , 58: 325-328 (1999).	<input type="checkbox"/>	<input type="checkbox"/>
KLP	DT	CHIPOWSKY et al., "Synthesis of 1-thioaldosides Having an Amino Group at the Aclycon Terminal," <i>Carbohydrate Res.</i> , 31: 339-346 (1973).	<input type="checkbox"/>	<input type="checkbox"/>

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OTHER - NON PATENT LITERATURE DOCUMENTS					
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			Yes	No	
KE	DU	CHU et al., "Presentation of Ligands on Hydroxylapatite," <i>Bioconjugate Chem.</i> , 8: 103-105 (1997).			
KE	DV	CZERWINSKI et al., "Cytotoxic Agents Directed to Peptide Hormone Receptors: Defining the Requirements for a Successful Drug," <i>Proc. Natl. Acad. Sci. USA</i> , 95: 11520-11525 (1998).			
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KE	DX	EICHLER et al., "Studies on the Uptake of Low Molecular Weight Monomeric Tris-galactosyl Conjugates by the Rat Liver," <i>Biochem. Pharmacol.</i> , 44(11): 2117-2122 (1992).			
KE	DY	FINDEIS et al., "Ligand-Based Carrier Systems for Delivery of DNA to Hepatocytes," <i>Methods in Enzymology</i> , 247: 341-351 (1994).			
KE	DZ	FINDEIS, "Stepwise Synthesis of a GalNAc-Containing Cluster Glycoside Ligand of the Asialoglycoprotein Receptor," <i>Int. J. Peptide Protein Res.</i> , 43: 477-485 (1994).			
KE	FA	FRANSSEN et al., "Hepatic and Intrahepatic Targeting of an Anti-Inflammatory Agent with Human Serum Albumin and Neoglycoproteins as Carrier Molecules," <i>Biochem. Pharmacol.</i> , 45(6): 1215-1226 (1993).			
KE	FB	GUPTA et al., "Synthesis of Neoglycopeptides and Analyses of their Biodistribution In Vivo to Identify Tissue Specific Uptake and Novel Putative Membrane Lectins," <i>Glycoconjugate J.</i> , 11: 558-571 (1994).			
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KE	FD	HARDY et al., "Different Modes of Ligand Binding to the Hepatic Galactose/N-Acetylgalactosamine Lectin on the Surface of Rabbit Hepatocytes," <i>Biochem.</i> , 24: 22-28 (1985).			
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KE	FG	KUO et al., "Novel Systems for Controlled Delivery of Macromolecules," <i>Crit. Rev. Eukaryotic Gene Express.</i> , 6(1): 59-73 (1996).			
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KE	FI	LEE, "Synthesis of Some Cluster Glycosides Suitable for Attachment to Proteins or Solid Matrices," <i>Carbohydrate Research</i> , 67: 509-514 (1978).			
KE	FJ	LEE et al., "New Synthetic Cluster Ligands for Galactose/N-Acetylgalactosamine-Specific Lectin of Mammalian Liver," <i>Biochem.</i> , 23: 4255-4261 (1984).			
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KE	FM	LEE, "Binding Modes of Mammalian Hepatic Gal/GalNAc Receptors," <i>Ciba Found. Symp.</i> , 145: 80-95 (1989).			



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FE	FN	LEE et al., "Ligand Structural Requirements for Recognition and Binding by the Hepatic Asialoglycoprotein Receptor," <i>Targeted Diagn. Ther.</i> , 4: 65-86 (1991).		
FE	FO	LEE, "Biochemistry of Carbohydrate-Protein Interaction," <i>FASEB J.</i> , 6: 3193-3200 (1992).		
FE	FP	LEE et al., "Facile Synthesis of a High-Affinity Ligand for Mammalian Hepatic Lectin Containing Three Terminal N-Acetylgalactosamine Residues," <i>Bioconjug. Chem.</i> , 8(5): 762-765 (1997).		
FE	FQ	LEE-YOUNG et al., "Neoglycoconjugates: Preparation and Application," <i>Acad. Press, Inc.</i> , 511-537 (1994).		
FE	FR	LEVIS et al., "Cellular Uptake of Oligodeoxyribonucleoside Methylphosphonates," <i>Antisense Research and Development</i> , 5: 251-259 (1995).		
FE	FS	LU et al., "Antisense DNA Delivery in Vivo: Liver Targeting by Receptor-Mediated Uptake," <i>J. Nucl. Med.</i> , 35: 269-275 (1994).		
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FE	FU	MARTINEZ-FONG et al., "Nonenzymatic Glycosylation of Poly-L-lysine: A New Tool for Targeted Gene Delivery," <i>Hepatology</i> , 20(6): 1602-1608 (1994).		
FE	FV	MERWIN et al., "Targeted Delivery of DNA using YEE(GalNAcAH) ₃ , A Synthetic Glycopeptide Ligand for the Asialoglycoprotein Receptor," <i>Bioconjugate Chem.</i> 5: 612-620 (1994).		
FE	FW	MIER et al., "Preparation and Evaluation of Tumor-Targeting Peptide-Oligonucleotide Conjugates," <i>Bioconjugate Chem.</i> , 11: 855-860 (Nov. - Dec. 2000).		
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FE	GA	PÉRIGAUD et al., "Nucleoside Analogues as Chemotherapeutic Agents: A Review," <i>Nucleosides and Nucleotides</i> , 11(2-4): 903-945 (1992).		
FE	GB	PLANK et al., "Gene Transfer into Hepatocytes Using Asialoglycoprotein Receptor Mediate Endocytosis of DNA Complexed with an Artificial Tetra-Antennary Galactose Ligand," <i>Bioconjugate Chem.</i> , 3: 533-539 (1992).		
FE	GC	RANADE, "Drug Delivery Systems: 3A. Role of Polymers in Drug Delivery," <i>J. Clin. Pharmacol.</i> , 30: 10-23 (1990).		
FE	GD	RICE et al., "Defined Geometry of Binding between Triantennary Glycopeptide and the Asialoglycoprotein DNA of Rat Hepatocytes," <i>J. Biol. Chem.</i> , 265(30): 18429-18434 (1990).		
FE	GE	RICE et al., "Interterminal Distance and Flexibility of a Triantennary Glycopeptide as Measured by Resonance Energy Transfer," <i>Biochem.</i> , 30: 6646-6655 (1991).		
FE	GF	RICHARDSON et al., "Potential of Low Molecular Mass Chitosan as a DNA Delivery System: Biocompatibility, Body Distribution and Ability to Complex and Protect DNA," <i>Intl. J. Pharm.</i> , 178: 231-243 (1999).		
FE	GG	ROBINSON et al., "Bioadhesive Polymers for Controlled Drug Delivery," <i>Annals New York Academy of Sciences</i> , 507: 307-314 (1987).		
FE	GH	ROHLFF et al., "A Novel, Orally Administered Nucleoside Analogue, OGT 719, Inhibits the Liver Invasive Growth of a Human Colorectal Tumor, C170HM2," <i>Cancer Res.</i> , 59: 1268-1272 (1999).		

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Examiner Signature

Date Considered

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